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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNIO	
09/835,164	04/13/2001	THEST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
		Shujin Zhang	CISCO-3840	4870
	7590 11/02/2005		EXAM	INER
THELEN REID & PRIEST LLP			PATEL, NIKETA I	
CISCO		·	TATEL, N	IKLIAI
P.O. BOX 640640			ART UNIT	PAPER NUMBER
SAN JOSE, C	A 95164-0640	•	2181	-
			DATE MAILED: 11/02/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
2	09/835,164	ZHANG ET AL.			
Office Action Summary	Examiner	Art Unit			
	Niketa I. Patel	2181			
The MAILING DATE of this communication of Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory peri Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re lood will apply and will expire SIX (6) MONT	ATION. ply be timely filed THS from the mailing date of this communication.			
Status					
1) Responsive to communication(s) filed on 18	August 2005.	•			
2a)⊠ This action is FINAL . 2b)□ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	r Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims		,			
4) Claim(s) 53-94 is/are pending in the applicat	tion.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>53-94</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examir	ner.				
10)⊠ The drawing(s) filed on <u>29 June 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	n priority under 35 U.S.C. § 1	19(a)-(d) or (f).			
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No.					
3.☐ Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Burea	au (PCT Rule 17.2(a)).	·			
* See the attached detailed Office action for a list	t of the certified copies not red	ceived.			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. 19340					
☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2/6/2004. Paper No(s)/Mail Date 2/6/2004. Paper No(s)/Mail Date 2/6/2004. Paper No(s)/Mail Date 2/6/2004.					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 53-57, 60-64, 67-71, 74-78, 81-85, 88-92 are rejected under 35 U.S.C. 102(e) as being anticipated by Beser U.S. Patent Number: 6,189,102 (hereinafter referred to as 'Beser'.)
- 3. **Referring to claims 53, 60, 67, 74, 81, 88,** *Beser* teaches a method, an apparatus for issuing or renewing a host address, comprising: retrieving a host identifier in a header of a data packet [see column 32 lines 39-67 and column 33 lines 1-22, 'MAC address']; matching said host identifier with a list of host identifiers [see column 32 lines 39-67 and column 33 lines 1-22, 'test using the authentication table']; maintaining a state of authentication for a host if a match is found, or if not matched, maintaining a state of authentication for a host if a match is found, or if not matched, maintaining a state of unauthentication for said host [see column 33 lines 9-33, 'registered', 'registration rejected']; inserting a proxy address in a relay agent address field in the data packet [see column 24 lines 10-20, 'CM 16 functions as a standard BOOTP relay agent/DHCP Proxy', lines 29-44 and lines 51-63, 'if the first message field is zero, the second network device puts its own connection address into the first message field' and column 26 lines 36-50]; and transmitting the data packet to an address allocation device to issue or renew said host address if said host is in a state of authentication [see abstract and column 29 –

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lines 31-48]; receiving a response from said address allocation device [see table 5]; modifying a value in a server identifier field in said response to match said proxy address and transmitting said response to said host associated with said host identifier [see column 15, lines 22-23, table 4-SIADDR 128 and column 18, lines 7-48, SIADDR.]

- 4. **Referring to claims 54, 61, 68, 75, 82, 89**, *Beser* teaches wherein said host identifier is a MAC address [see column 32 lines 39-67 and column 33 lines 1-22, 'MAC address'.]
- 5. Referring to claims 55, 62, 69, 76, 83, 90, Beser teaches further comprising storing said list of host identifiers in a memory [see column 32 lines 53-57.]
- 6. Referring to claims 56, 63, 70, 77, 84, 91, Beser teaches further comprising pairing said list of host identifiers with a host information list [see column 10 lines 31-46 and Table 1.]
- Referring to claims 57, 64, 71, 78, 85, 92, Beser teaches further comprising discarding said data packet if said host is not in a state of authentication and wherein said processor is further adapted to discard said data packet if no match is found [see column 33 lines 9-33, 'registration rejected'.]

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 58, 65, 72, 79, 86 and 93 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beser U.S. Patent Number: 6,189,102 (hereinafter referred to as 'Beser'.)

10. **Referring to claims 58, 65, 72, 79, 86, 93**, *Beser* teaches a method for issuing or renewing a host address [see column 32 – lines 39-67 and column 33 – lines 1-22, 'MAC address'] however does not set forth the limitation of further comprising querying an accounting device to obtain account information for said host.

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention that it was old and well known in the computer art to get the advantage of being able to obtain account information of a host in order to determine various types of services that needs to be provided to the host. It would have been obvious to one or ordinary skill in the art at the time of applicant's invention to include accounting device containing account information for the host.

- 11. Claims 59, 66, 73, 80, 87 and 94 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beser U.S. Patent Number: 6,189,102 (hereinafter referred to as 'Beser') and further in view of Michael Patrick, "DHCP Relay Agent Information Option" Motorola ISG, July 30, 1997 (hereinafter referred to as "Michael".)
- 12. **Referring to claims 59, 66, 73, 80, 87, 94**, *Beser* teaches inserting a proxy address in a relay agent address field in the data packet [see column 24 lines 10-20, 'CM 16 functions as a standard BOOTP relay agent/DHCP Proxy', lines 29-44 and lines 51-63, 'if the first message field is zero, the second network device puts its own connection address into the first message field' and column 26 lines 36-50] however does not set forth the limitation of wherein said inserting step further comprises flagging an option 82 option in said data packet. *Michael* teaches a use of option 82 with DHCP protocol to prevent several security attacks on the operation of IP

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address assignment, including IP spoofing, Client ID spoofing, MAC address spoofing, and DHCP server address exhaustion [see *Michael* page 5 – paragraphs 1,2,3 and page 10 – paragraphs 2,3,4,5,6.]

One of ordinary skill in the art at the time of applicant's invention would have clearly recognized that it is quite advantageous for the system of *Beser* to implement option 82 in order to prevent several security attacks on the operation of IP address assignment, including IP spoofing, Client ID spoofing, MAC address spoofing, and DHCP server address exhaustion. It is for this reason that one of ordinary skill in the art would have been motivated to use option 82 to prevent various types of security attacks on the operation of IP address assignment.

Response to Arguments

Applicant's arguments filed 03/21/2005 have been fully considered but they are not persuasive. The applicant(s) argues that Beser fails to teach the limitation of "modifying a value in a server identifier field in said response to match said proxy address," furthermore, the applicant points out that there is clearly no modification of the filed in the response once the response is issued by the address allocation device (server,) at pages 13-16 of the "Remarks/Arguments" section.

The examiner respectfully disagrees with this argument. Although, during the telephonic interview the examiner had indicated that the amendment to the independent claim 53 (and similar amendment to all the other independent claims) appears to over come the cited prior art, upon further review of the amendment, the examiner concludes that the amendment appears to simply reword the original limitation thus, the claim nevertheless reads on the prior art of record.

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Beser teaches the limitation of "modifying a value in a server identifier field in said response to match said proxy address," at column 15, lines 22-23, table 4-SIADDR 128 and column 18, lines 7-48, SIADDR and column 24, lines 10-20, 45-66. Furthermore, the value of the SIADDR field is modified as shown in table 4: where the value of the SIADDR is an IP 54 address of next server to use in bootstrap; returned in DHCPOFFER, DHCPACK and DHCPNAK server and as shown in table 7: an IP 54 address for a TFTP 64 server to download configuration information for an interface host.

Conclusion

14. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Niketa I. Patel whose telephone number is (571) 272 4156. The examiner can normally be reached on M-F 8:00 A.M. to 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on (571) 272 4083. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NP 10/30/2005

HENRY W. H. TSAI

PRIMARY EXAMINER